

Begin

Reel # 490

Savin Kova, k.v.

AUTHORS:

Nikolenko, L. Nl, Koptug, V.A. ., SOV/196-58-1-32/46
Savinkova, Ye. V.

TITLE:

On the Interaction of Benzyl Amine With Hydrogen Sulfide
(O vzaimodeystvii benzilamina s serovodorodom)

PERIODICAL:

Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya
tekhnologiya, 1958, Nr 1, pp. 133 - 134 (USSR)

ABSTRACT:

From an analogy with the reaction of the thiophenols with amines (Refs 1,2), the formation of mercaptan could be expected in connection with the interaction of the latter with hydrogen sulfide. It has turned out, however that a peculiar S-alkylation takes place which leads to the formation of benzyl mercaptan. In the case of an 18 hours' heating of a mixture of benzyl amine, sodium sulfide and HCl at from 240 to 245°, the yield of benzyl mercaptan amounted to 38,8% moreover, 4,2% dibenzyl-disulfide were isolated. The mechanism of the interaction of hydrogen sulfide with benzyl amine is obviously analogous to the mechanism of alkylation of the thiophenols by amines (Ref 2). An experimental part follows.

Card 1/2

On the Interaction of Benzyl Amine With
Hydrogen Sulfide

SOV/156-58-1-32/46

In a footnote the author corrects the data given in his report (Ref 1): The substance with a melting point of from 50 to 51° - which is described there - is not a methyl- β -naphthyl sulfide, but an acetyl derivative of the N-methyl- β -naphthyl amine. There are 6 references, 3 of which are Soviet.

ASSOCIATION: Kafedra tekhnologii organicheskikh krasiteley Moskovskogo khimiko-tekhnologicheskogo instituta im. D. I. Mendeleyeva (Chair of the Technology of Organic Dyes at the Moscow Chemical and Technological Institute imeni D. I. Mendeleyev)

SUBMITTED: September 14, 1957

Card 2/2

SAVINO, A.V., inzh.

Apparatus for tuning the automatic safety devices of turbines.

Energetik 10 no.7:13-14 JI '62.

(MIRA 15:7)

(Turbines--Safety appliances) (Automatic control)

SAVINOV, A.

Hard-working. Prom.koop. 12 no.12:5 D '58. (MIRA 12:2)

1. Zamestitel' predsedatelya pravleniya arteli invalidov "Pobeda"
po orgmassovoy rabote i kadram, g Vladimir.
(Vladimir--Vocational rehabilitation)

1. SAVINOV, A.
2. USSR (600)
4. Horses
7. The Agoshkovs as horsebreeders, Konevodstvo 23 no. 3, 1953.
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

SAVINOV, A.I., inzhener.

Applying the analytical method in determining the class of complexity of machinery equipment. Vest.mash.34 no.12:88-89 D'54.
(MLRA 8:2)

1. Glavnyy konstruktor Leningradskogo filiala Gipromez.
(Machinery industry)

S/137/62/000/001/007/237
A060/A101

AUTHOR: Savinov, A.I.

TITLE: From the practice of specialization and cooperation in the production of spare parts and replacement articles in the metallurgical industry of the Chinese People's Republic

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 1, 1962, 8, abstract 1V59 ("Tr. Leningr. inzh.-ekon. in-ta", 1960, no. 31, 133 - 142)

TEXT: The methodological foundations of the plan were worked out in large measure on the basis of the experience in the USSR. However the method and approach to the solution of the fundamental problem are original and are of practical value for USSR conditions; 1) division of enterprises into groups depending on the volume of basic production; 2) determination of the economically expedient (normal) scales for the repair shops for each group of metallurgical enterprises; 3) the division of metallurgical enterprises by regions - in the spheres of influence of the leading enterprises of the metallurgical industry and heavy-machinery construction, etc.

[Abstracter's note; Complete translation]

N. Yudina

Card 1/1

SAVINOV, A.P.; TSYPKIN, L.B.

Studies on stable cultures of the heart Cynomolgus monkeys in
rat experiments. Vop. onk. 6 no.3:27-34 Mr '60. (MIRA 14:2)
(HEART--TUMORS) (TISSUE--CULTURE)

FROLOVA, M.P.; SAVINOV, A.P.

Histopathology of experimental infection in rodents caused by
Karaganda strains AB (type 4 of poliomyelitis virus). Vop.virus.
5 no.3:309-315 My-Je '60. (MIRA 13:9)

1. Laboratoriya patogistologii Instituta po izucheniyu poliomyelita
AMN SSSR, Moskva.

(POLIOMYELITIS)

SAVINOV, A.P.; TSYPKIN, L.B.

Results of a morphological study of the stability of cultures of
Cynomolgus monkey heart cells in vivo. Vop.virus. 5 no.3:367-372
My-Je '60. (MIRA 13:9)

1. Institut po izucheniye poliomyelita AMN SSSR, Moskva.
(NEOPLASMS) (VIRUSES)

SAVINOV, A.P.

Mechanism of the appearance of cerebral hemorrhage in hypertension and atherosclerosis. [with summary in French]. Zhur, nevr. i psikh. 28 no.9:1032-1041 '58 (MIRA 11:11)

1. Kafedra patologicheskoy anatomii (zav. - prof. I.V. Davydovskiy)
II Moskovskogo meditsinskogo instituta:

(HYPERTENSION, compl.

cerebral hemorrh., pathol (Rus))

(ARTERIOSCLEROSIS, compl.

same (Rus))

(CEREBRAL HEMORRHAGE, etiol. & pathogen.

arteriosclerosis & hypertension, pathol. (Rus))

CHUMAKOVA, M.Ya.; VASIL'YEV, Yu.M.; SAVINOV, A.P.; AGOL, V.I.;
TSYPKIN, L.B.

Strain of malignant cells obtained through the prolonged cultivation in vitro of normal kidney tissue from mice of the A/SN line. Vop.onk. 8 no.8:51-57 '62. (MIRA 15:9)

1. Iz Instituta po izucheniyu poliomelita i virusnykh entsefalitov (dir. - deystv. chl. AMN SSSR, prof. M.P. Chumakov) i Instituta eksperimental'noy i klinicheskoy onkologii (dir. - deystv. chl. AMN SSSR, prof. N.N. Blokhin) Akademii meditsinskikh nauk SSSR.
(CANCER) (TISSUE CULTURE) (KIDNEYS)

ROBINZON, I.A.; TYUFANOV, A.V.; SHEFTEL', M.A.; SAVINOV, A.P.; FROLOVA,
M.P.; YUROVETSKAYA, A.I.

Morphological control of the safety of poliomyelitis vaccine.
Vest. AMN SSSR 14 no.10:29-34 '59. (MIRA 13:6)

1. Institut po izucheniyu poliomielitita AMN SSSR.
(POLIOMYELITIS)

SAVINOV, A.P.; TSYPKIN, L.B.

Morphological study on subcutaneous implants of stable cultures of monkey heart. Vop.onk. 5 no.9:319-325 '59. (MIRA 12:12)

1. Iz laboratorii patologicheskoy gistologii (zav. - dots. I.A. Robinson, konsul'tant po teme - chlen-korrespondent AMN SSSR prof. L.M. Shabad) Instituta po izucheniya poliomielifita AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. M.P. Chunakov). Adres avtorov: Moskva, 118, 8-ya ul., Sokolinoy gory, d.15, korp. 2. Institut po izucheniya poliomielifita AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. M.P. Chumakov). Adres avtorov: Moskva, 118, 8-ya ul. Sokolinoy gory, d.15, korp. 2. Institut po izucheniya poliomielifita AMN SSSR.
(HEART)
(NEOPLASMS exper.)

ROBINZON, I.A.; FROLOVA, M.P.; SAVINOV, A.P.; SHEFTTEL', M.A.

Histopathology of experimental infections induced by infections with enteric neurotropic viruses. Zhur.nerv.i psikh. 59 no.7:769-776 '59.
(MIRA 12:11)

1. Laboratoriya patogistologii (zav. - dotsent I.A. Robinzon) Instituta po izucheniyu poliomyelita AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. M.P. Chumakov).

(COXSACKIE VIRUSES, infet.
exper. infect. with A7 strain (Rus))

FROLOVA, M.P.; SAVINOV, A.P.

Etiology of poliomyelitislike diseases caused by Cocksackie
viruses; experimental morphological study. Zh. nevropat.
psikhiat. Korsakov 63 no.3:330-338 '63 (MIRA 17:1)

1. Laboratoriya patogistologii (zav. - dotsent I.A.Robinzon)
Instituta poliomiyelita i virusnykh entsefalitov (dir. - prof.
M.P.Chumakov) AMN SSSR, Moskva.

POGODINA, V.V.; SAVINOV, A.P.

Variation in the pathogenicity of viruses of the tick-borne encephalitis complex for different animal species I. experimental infection of mice and hamsters. Acta virol. 8 no.5:424-434 S '64.

1. Institute of Poliomyelitis and Viral Encephalitides, U.S.S.R. Academy of Medical Sciences, Moscow.

SAVINOV, A.V.

The reason why I have no students lagging behind in their work.
Est. v shkole no.4:79-82 J1-Ag '54. (MIRA 7:8)

1. Uchitel' Ponazyrevskoy sredney shkoly no.1 Ponazyrevskogo
rayona Kostromskoy oblasti.
(Biology--Study and teaching)

SAVINOV, A.V.

Heating the lubricating oil before starting turbocompressors.
Energetik 4 no.9:10-11 S '56. (MLRA 9:10)
(Compressors) (Turbomachines)

SAVINOV, A.V., inzh.

Conical feeler gage for measuring the diameters of elevator jets.
Energetik 10 no.2:17 F '62. (MIRA 15:2)
(Heating plants--Maintenance and repair)

SAVINOV, B., prof., doktor tekhn.nauk

Uses of an "invisible one." Znan. ta pratsia no.3:4-6 Mr '63.
(MIRA 16:10)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300

301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400

401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500

501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600

601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700

701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800

801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900

901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100

1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200

1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300

1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400

1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1415 1416 1417 1418 1419 1420 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447 1448 1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464 1465 1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479 1480 1481 1482 1483 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495 1496 1497 1498 1499 1500

1501 1502 1503 1504 1505 1506 1507 1508 1509 1510 1511 1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534 1535 1536 1537 1538 1539 1540 1541 1542 1543 1544 1545 1546 1547 1548 1549 1550 1551 1552 1553 1554 1555 1556 1557 1558 1559 1560 1561 1562 1563 1564 1565 1566 1567 1568 1569 1570 1571 1572 1573 1574 1575 1576 1577 1578 1579 1580 1581 1582 1583 1584 1585 1586 1587 1588 1589 1590 1591 1592 1593 1594 1595 1596 1597 1598 1599 1600

1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1649 1650 1651 1652 1653 1654 1655 1656 1657 1658 1659 1660 1661 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671 1672 1673 1674 1675 1676 1677 1678 1679 1680 1681 1682 1683 1684 1685 1686 1687 1688 1689 1690 1691 1692 1693 1694 1695 1696 1697 1698 1699 1700

1701 1702 1703 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1714 1715 1716 1717 1718 1719 1720 1721 1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740 1741 1742 1743 1744 1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755 1756 1757 1758 1759 1760 1761 1762 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 1774 1775 1776 1777 1778 1779 1780 1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800

1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900

1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100

2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200

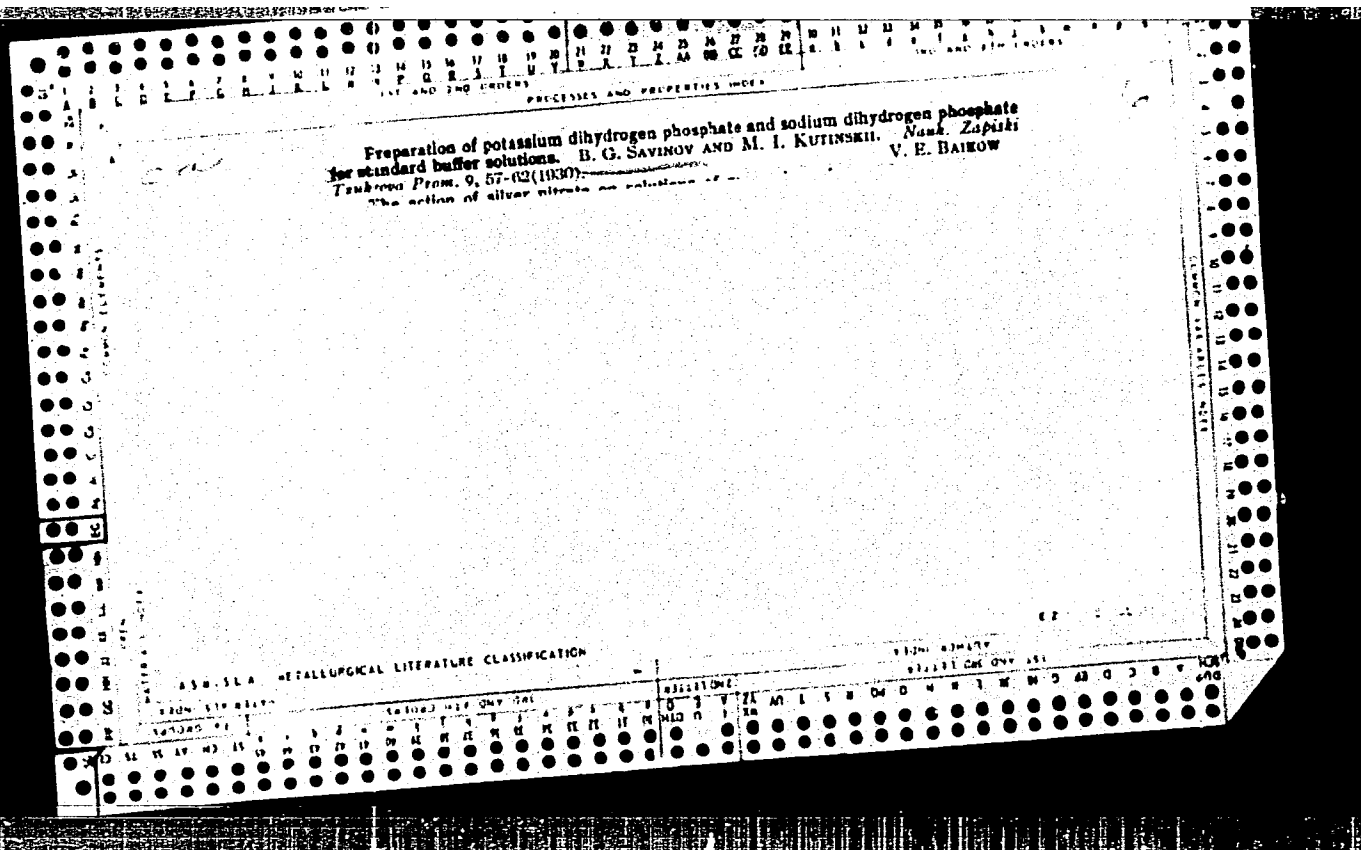
2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300

2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400

2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500

2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600

2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 26



SAVINOV, B. G.

SAVINOV, B. G. Nitrogen compounds; calculation and preparation Khar'kov, Gos. nauch. tekhn. izd-vo Ukrainy, 1933. 70 p.

SAVINOV, Boris Grigor'evich, 1903

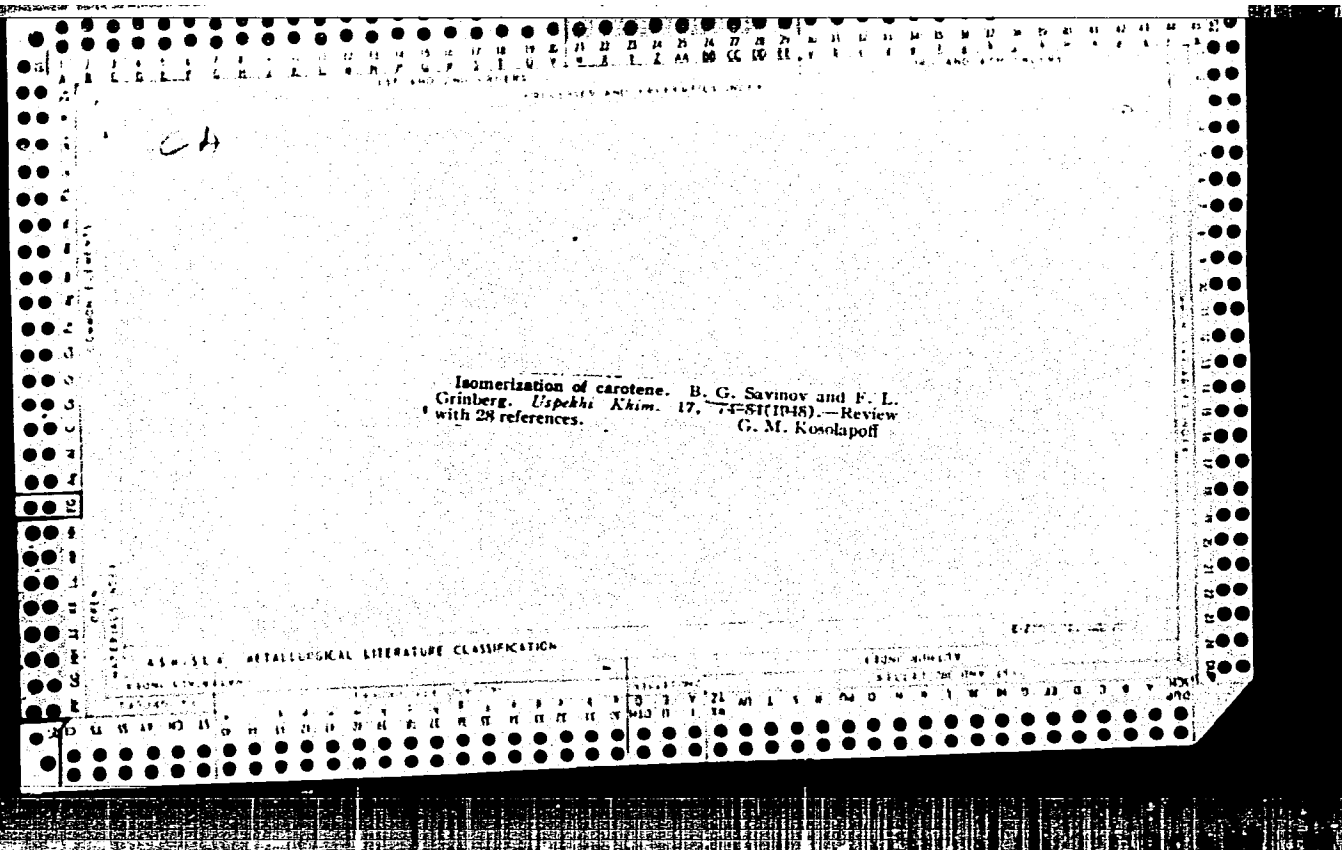
CAROTIN (Provitamin A) and how to obtain its preparations Kiev; Izd-vo Akade-
mii nauk Ukr. SSR, 1948. 229 p. (54-22246)

UK898.C3533

SAVINOV, B. G.

Lushchevskaya, C. M. and Savinov, B. G. "On the optimal conditions in the use of green plants for the separation of carotin", (In index second author is B. G. Savinov), Ukr. Khim. zhurnal, 1948, Issue 1, p. 89-95, - Bibliog: 17 items.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 10, 1949).



SAVINOV, B. G.

Savinov, B. G. "The stability of carotene in organic solvents", Ukr. khim. zhurnal, Vol. XIV, Issue 2, 1949, p. 93-100, - Bibliog: 11 items.

SO: U-4392, 19 August 53. (Petropolis 'Zhurnal 'nykh Statey, No 21, 1949).

SAVINOV, B. G.

Savinov, B. G. "The use of pectinase preparations in separating out chromoplast pigments", Ukr. khim zhurnal, Vol XIV, Issue 2, 1949, p. 101-106, -Bibliog: 9 items.

SO: U- 4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No 21, 1949).

SAVINOV, B. G.

Savinov, B. G. and Grinberg, F. L. "Selection and activation of absorbents for the chromatographic separation of the isomers of carotin and its oxidation products," Ukr. khim. zhurnal, Vol XV, Issue 1, 1949, p. 41-52, -Bibliog: p. 52

SO: U-5241, 17 December 1953, (Letopis 'Zhurnal 'nykh Statey, No. 26, 1949)

~~SECRET~~
SAVINOV, B. G.

Chemical Abst.
Vol. 48 No. 6
Mar. 25, 1954
Organic Chemistry

Solubility of carotene in organic solvents. A. A. Mikhailovskii and B. G. Savinov. *Dokl. Akad. Nauk. SSSR*, 1954, 91, 15-16. (1949) *Chem. Abstr.* 43: 5148. Carotene is most sol. in CS₂, CHCl₃, and CCl₄, least in Me₂CO and AcOH, with C₆H₆, MePh, xylene, (CH₃Cl), petr. ether, Et₂O, and pyridine giving intermediate values. Sol. values at temps. in the range 5-50° are given. Sol. values at temps. at 25° in terms of $N \times 10^{-4}$ are given: CS₂, 12.85; CHCl₃, 14.68; CCl₄, 11.59; C₆H₆, 3.64; MePh, 3.64; xylene, 3.04; (CH₃Cl), 2.18; pyridine, 0.739; Et₂O, 0.0349; Me₂CO, 0.04; and AcOH, 0.024.
G. M. Kosolapoff

SAVINOV, E. H.

Science - Congresses

Session of the Department of Physico-Mathematical and Chemical Sciences of the Academy of Sciences of the Ukrainian S.S.R. Visnyk AN URSR 21, No. 7, 1949.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

SAVINOV, B. G.

Chemical Abstracts
Vol. 48 No. 5
10, 1954
Physical Chemistry

Some instances of the application of the chromatographic method to studies of fat-soluble vitamins. L. G. Savinov. *Issledovaniya v Oblasli Khromatog., Trudy Vsesoyuz. Soveshchaniya Khromatog., Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1950, 200-7 (Pub. 1952); cf. C.A. 44, 11032c. Chromatography on $MgSO_4$ of the reaction products of bromination of carotene with *N*-bromosuccinimide showed very readily the presence of unreacted α - and β -carotenes, along with a brown-yellow zone of the reaction product, which was very strongly retained by various adsorbents, of which $MgSO_4$ was most satisfactory for elution of the product by soln. of the mechanically sepd. zone with H_2O . Products of catalytic oxidation of carotene can be sepd. chromatographically on Al_2O_3 (C.A. 44, 10059a). Chromatography of carotene specimens subjected to the action of alc. KOH is best done on $Ca(OH)_2$ dried at 400-500°; under mild treatment with alkali the di-*cis*-isomers of α - and β -carotene form first: neo- β -carotene B (absorption max. 475 and 445 $m\mu$) and neo- α -carotene B (466 and 437 $m\mu$). Alkali treatment at 50-100° gives smaller amts. of further degradation products which deposit above the former substances; the new materials are the mono-*cis*-isomers: neo- β -carotene U (absorption max. 481 and 450 $m\mu$) and neo- α -carotene U (471 and 442 $m\mu$). Sepn. of carotene from natural products present in sunflower petals is readily done after extn. with Me_2CO -petr. ether and sapon. with alc. KOH, followed by chromatography on Al_2O_3 (Ukrain. Khim. Zhur. 16, 310(1950)). Vitamin E detn. in plant products can be made by passage of the ext. through specimens of diatomite which retains chlorophyll, carotene, and carotenoids, and does not retain vitamin E; the filtrate can be analyzed by usual chem. methods. G. M. K.

CA

77

Solubility of carotene in vegetable oils. A. A. Mikhalovskaya and R. G. Savinov (Acad. Sci. Ukr. S.S.R., Kiev). *Ukrain. Khim. Zhur.* 16, 183-7(1950); cf. *ibid.* 15, 285(1949).—Solubilities of carotene in sunflower, cottonseed, olive, arachide, and tung oils, as well as in margarine and synthetic Et laurate were detd. In spite of variation in structures of the oils the solubilities were comparable at the same temps.: at 25°, 0.2%; at 45° 0.3%; and at 60° 0.5%. Carotene forms supersatd. solns. in oils readily, thus making it possible to prep. rather stable formulations with higher concns. of carotene. G. M. Kowlanoff

SAVINOV, B. G.

③

Chromatographic study of the primary products of the catalytic oxidation and isomerization of carotene. B. G. Savinov and F. I. Grinberg (Inst. Org. Chem., Acad. Sci. Ukr. S.S.R.). *Ukrain. Khim. Zhur.* 16, 358-60 (1950) (in Russian); cf. 16, 57 (1950).—Carotene treated with O at 40° in C₆H₆ or sunflower oil yields products which form a range of colored zones after adsorption on Al₂O₃; these include stereoisomers of carotene and its oxides and aldehydes formed by opening of one of the rings. These products are either devoid of biol. activity or possess it to a much smaller degree than carotene. The probably detected products are: neo- β -carotenes U, V, B, D, and E, β -carotene diepoxide, β -carotene monoepoxide, mutachrome (isomeride of the epoxide), aurochrome, β -hydroxycarotene, β -apo-2-carotenal and β -apo-4-carotenal. Cu accelerates the oxidation.

G. M. Kosolapoff

SAVINOV, B. G.

Chemical Abst.
Vol. 48 NO. 6
Mar. 25, 1954
Biological Chemistry

Method of determining vitamin E in green parts of plants
B. G. Savinov and G. M. Lushchevskaya. *Ukrain. Khim. Zhur.* 18, 370-82 (1950). Crush 2-3 g. fresh green plant material and ext. with 15-25 ml. EtOH and then with 15-25 ml. benzene. Add 1.5-2.5 ml. 60% aq. KOH and shake 20 min. to allow sapon. Add H₂O, discard the aq. layer and filter the benzene layer through anhyd. Na₂SO₄. Det. the content of carotenoids from the yellow color in the benzene layer. Evap. the benzene by gentle heating and dissolve the residue by refluxing with 5 ml. abs. EtOH. Add 1 ml. HNO₃ and develop the rose color by refluxing exactly 3 min. Det. the extinction coeff. at 485 mμ and read the concn. of α-tocopherol from a standard curve. The correction for the content of carotenoids amts. to 2-4 times the content of α-tocopherol. Vitamin E contents in p.p.m. of dry wt. in green parts were: *Trifolium* sp., 277; *Artemisia* sp., 275; *Castanea sativa*, 254; *Acer* sp., 248; *Polygonum aviculare*, 207; *Echinochloa crus-galli*, 219; *Poa* sp., 217; *Berberis vulgaris*, 213; *Potentilla anserina*, 198; and *Malva* sp., 183.
Ronald G. Menzel.

1. SAVINOV, B.G.
2. USSR (600)
4. Chemistry - Societies
7. Kiev department of the All-Union D.I. Mendeleev Chemical Society, Ukr.khim.zhur.
16 no. 5, 1950

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

SAVINOV B.G.

7 Stability of carotene to alkali. A. A. Mikhaylov and B. G. Savinov. *Ukrain. Khim. Zhur.* 17, 418-421 (1961) [in Russian]. Treatment of α - or β -carotene in C_6H_6 with alc. KOH (8-10%) in the absence of light and O does not alter the resistance to storage of the substances after extended periods even at elevated temp. The changes which take place consist of partial decomposition, forming colorless substances, as well as stereoisomerization. Under mild conditions the formation of di-cis isomers predominates: at first: neo- α -carotene B and neo- β -carotene B, resp. At elevated temp. are also formed in smaller amts. neo- α -carotene U and neo- β -carotene U (cf. Beadle, *et al.*, *C.A.* 36, 5856 and Zechmeister and Tuzson, *C.A.* 32, 9120). G. M. Kosolapoff.

SAVINOV B.S.

/ Bromination of carotene by *N*-bromosuccinimide. B. G. Savinov and G. S. Tret'yakova. Ukrain. Khim. Zhurn. 1951 (in Russian).—Bromination of carotene with *N*-bromosuccinimide is accompanied by dimerization. For the isolation of pure mono-Br dimer, which is not eluted in usual chromatographic methods, a water-sol. adsorbent (MgSO₄) was used. The product, m. 110–20°, obtained from MgSO₄ contains inorg. matter. After crystn. from CHCl₃ the pure substance is obtained as a green-yellow powder, shrinking at 175–80°, decomp. at higher temps. It is sparingly sol. except in CHCl₃; absorp. max. at 424 mμ, and is a dimeric mono-Br deriv., with mol. wt. 1080–2000, contg. 8.5% Br. It is strongly adsorbed on Al₂O₃, MgO, CaO, or CaCO₃ and cannot be eluted; it forms a yellow-brown zone at the top of the column. G. M. Kosolapov

CA

Some simplified methods for determining carotene in green plants. B. G. Savinov and G. M. Lushchevskaya. *Doklady Akad. Nauk S.S.S.R.* 76, 103-4 (1951)—The method proposed by Sapozhnikov (*C.A.* 43, 711c), if used without chromatographic adsorption, is inaccurate. A modified Popandulo method (*Vitamin Compn. of Feeds*, 1949) is satisfactory if used as follows: 1 g. sample is ground with quartz sand, with addn. of 5-10 g. dry Na_2SO_4 , mixed with chromatographic adsorbent (5 g. of MgO), re-ground, placed in a column with petr. ether, by using petr. ether for quant. transfer to the column, and washing with pure petr. ether. Use of C_6H_6 speeds the operation. If the chromatographic treatment and a 10-15 min. grinding are used in the Sapozhnikov method, the results are made substantially accurate. Several common plants were successfully analyzed by both procedures. G. M. K.

SAVINOV, B.G.; TRET'YAKOVA, G.S.

Polymerization of carotone during bromization. Doklady Akad. nauk
SSSR 78 no.3:553-555 21 May 1951. (CLML 20:9)

1. Institute of Organic Chemistry of the Academy of Sciences
Ukrainian SSR. 2. Presented by Academician A.I. Oparin 30 March
1951.

DUBININ, M.M., akademik, otvetstvennyy redaktor; GAPON, Ye.N.; GAPON, T.B.;
ZHYPAKHINA, Ye.S.; RACHINSKIY, V.V.; BELEN'KAYA, I.M.; SHUVAEVA, G.M.;
ROGINSKIY, S.Z.; YANOVSKIY, N.I.; FUKS, N.A.; KISELEV, A.V.; NEYMARK, I.Ye.;
SLINYAKOVA, I.B.; KHATSET, F.I.; LOSEV, I.P.; TROSTYANSKAYA, Ye.B.;
TEVLINA, A.S.; DAVANKOV, A.B.; SALDAI, K.M.; BRUMBERG, Ye.M.; ZHIDKOVA,
Z.V.; VIDENEEVA, N.Ye.; NAPOL'SKIY, S.A.; MIKHAYLOVA, Ye.A.; KAZANSKIY, B.A.;
RYABCHIKOV, D.I.; SHEMYAKIN, F.M.; KRETOVICH, V.L.; BUNDEL', A.A.; SAVINOV,
B.G.; VENDT, V.P.; EPSHTEYN, Ya.A.

[Research in the field of chromatography transactions of the All-Union
Conference on Chromatography, November 21-24, 1950] Issledovaniia v oblasti
khromatografii; trudy Vsesoiuznogo soveshchaniia po khromatografii, 21-24
noiabria 1950 g. Moskva, Izd-vo Akademii nauk SSSR, 1952. 225 p.

(MLA 6:5)

1. Akademiya nauk SSSR. Otdelenie khimicheskikh nauk.

(Chromatographic analysis)

SAVINOV, B.G.

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Pharmaceuticals, Cosmetics, and
Perfumes

Chromatographic separation of some lipoidal components
of plant extracts on natural adsorbents. B.G. Savinov and
A.A. Svishchuk. *Ukrain. Khim. Zhur.* 1953, 1, 155.
Native diatomite (activated by 2-hr. treatment with 2N
HCl) can provide a satisfactory chromatographic sep. of
chlorophyll, carotene, pigments, and tocopherols from plant
exts. The adsorbent is best washed with H₂O, EtOH, and
C₆H₆, then dried just before use. Carotenoids are also
well retained by bentonite. G.M. Kozelaboff.

SAVINOV, B.G.

Chemical Abst.
Vol. 48 No. 9
May 10, 1954
Biological Chemistry

(4)
Determination of summary tocopherols (Vitamin E) in plant products. B. G. Savinov and G. M. Lushchevskaya. *Ukrain. Khim. Zhur.* 18, 510-8 (1952) (in Russian); cf. *C.A.* 48, 3131b. To det. the total content of tocopherols in plant material it is recommended that the method based on color reaction of 2,2'-dipyridyl with $FeCl_3$ be used; the tocopherols reduce $FeCl_3$ and color is obtained of the dipyridyl complex which can be used colorimetrically. However, for dependable results interfering plant substances should be removed. For this purpose the ext. is passed over a diatomaceous earth chromatographic column with CaH_2 as the solvent. The filtrate, which should be colorless, is then used for the reaction with $FeCl_3$ and dipyridyl after evapn. *in vacuo* in inert atm. The nitrate method of Furter and Meyer (*C.A.* 33, 4812) often gives results that are too high. The present method was tested on numerous exts. with consistent results. The nitrate method is improved somewhat by the chromatographic pretreatment.
G. M. Kosolapoff.

SAYINOV B.G.

✓ Enriching of the coagula of green plants with vitamin E.
D. A. Verner and B. G. Sayinov (Inst. Org. Chem., Acad.
Sci. Ukr. S.S.R., Kiev). *Vitaminy, Akad. Nauk Ukr.*
S.S.R. 1953, 78-81. — Protein coagula, prepd. from the juice
of green alfalfa, contained originally dry substance 24.0-
27.0%, tocopherols (I) 62.3-76.8 mg.%, carotene (II) 16.4-
17.8 mg.%, and total N 3.43-3.81%. On acid hydrolysis
(20 g. coagulum, 40 ml. 5% HCl soln., temp. 100°, time
1-1½ hrs.) I and II are liberated from the protein, giving
vitamin-enriched preps. in which the amts. of I and II can
be 10-11 and 5-6 times as great as in the original protein
preps., resp.; however, the abs. amt. of II decreases by
20-1%. The protein hydrolysis can be made also in a 10%
NaOH soln., but in the alk. medium a great destruction of
I and II occurs. E. Wierbicki

2

SAVINOV, D. G.

Methods of determination of carotene and vitamin E in plants. G. M. Lushchetskaya and B. G. Savinov. *Vitaminy, Akad. Nauk Ukr. S.S.R.* 1, 30-31 (1954). *Zhur., Khim.* 1954, No. 12839.—Two variations of a method for detg. carotene in plants differing in details of operation and including chromatographic purification of carotene exts. on MgO prior to colorimetric detn. are described. Detn. of vitamin E is based on an oxidimetric method with 1,1'-dipyridyl and FeCl₃. This method is improved by including chromatographic purification of the ext. on diatomite. M. Hosen

SAVINOV, B. G.

A. Carotene in green parts of some wild plants of the Ukrainian S.S.R. G. M. Iushchevskaya and B. G. Savinov. *Vitaminy, Akad. Nauk Ukr. S.S.R.* 1, 130-6 (1956), *Russk. Zhur., Khim.*, 1954, No. 12960. The carotene content was studied in 210 specimens of wild growing grasses, bushes, and trees. Ninety of the studied specimens contained over 12 mg. % of carotene (12.1-30.0 mg. % fresh wt.). Max. accumulation of carotene in leaves occurs from the beginning of July to the middle of August. The ratio of carotene and carotenoids studied in 11 specimens varied within wide limits. In 4 specimens were found more carotenoids (19.3-40.6 mg. % fresh wt.) than carotene (14.1-16.9 mg. %). In the remaining specimens carotene was somewhat higher, 16.2-24.4 mg. %, than carotenoids, 12.0-22.9 mg. %. The ratio of the various fractions of carotenoids was studied chromatographically. The total quantity of carotenoids did not change during July-August, it attained a max. in October, and then started a sharp drop. The decompn. products of the carotenoids are primarily localized in the first zone of the chromatogram while the second zone does not change. It is quite possible that in the second zone are oxidation products of carotene. The pigments in the first zone are most likely independent, natural substances accompanying carotene. The basic pigment of the first zone was obtained in cryst. form and was identified as violaxanthin. The contents of carotene in green leaves of several plants dropped sharply upon storage of leaves for 10 days or when they were dried for 3 hrs. at 100°. M. Hosh

SAVINOV P G

USSR.

Halogen derivatives of carotene. B. G. Savinov and G. S. Tret'yakov. Vitaminy, Akad. Nauk Ukr. S.S.R. 1, 137-138 (1953); Referat. Zhur., Khim. 1954, No. 10613.

Carotene (95% pure) was iodinated in the cold by stirring with iodine for 10 min., and recrystg. from CHCl_3 . At a ratio for carotene-iodine mixt. of 1:1-1:6 the product contained 45-49-50.5% iodine which indicates a mixt. of substances. The melting temps. of the iodination product (I) varied from 137 to 178° (decompn.). Further study of I was done chromatographically using various adsorbents. The best proved to be anhyd. activated MgSO_4 . The upper zone of the adsorbent which retained the basic I was colored green and could not be washed out completely. It was recovered by dissolving the adsorbent in water. I was extractable by CHCl_3 and pptd. by benzene. Thus were sepd. tetraiodide, a black powder with metallic sheen, m. 177-180° (decompn.) and diiodide, a black powder m. 167-69° (decompn.). The yield of tetraiodide was approx. 20% and of the diiodide 4-5%. The iodine is thought to attach itself to the double bond of one or both of the ionone rings of carotene. N-Bromosuccinimide (1 mole) in CCl_4 and 1.2 moles of carotene refluxed 1.5 hrs., filtered, and chromatographed on MgSO_4 and the chromatogram treated in the same way as for the iodides gave a green-yellow powder of noncrystalline structure with no sharp m.p. Mol. wt. and Br. datn. indicate that bromination is accompanied by dimerization which results in the

(2156)

2/2. B. G. SAVINOV
 formation of a monobromo-substituted dimer of carotene $C_{80}H_{111}Br$. Bromination of carotene by dissolving it in Br and combining the reagent dissolved in $CHCl_3$ gave the same results. Carotene bromide, m. $157-8^\circ$, corresponds to the formula $C_{160}H_{222}Br_2$, which indicates complete satn. of all the double bonds and substitution of 2 H atoms, apparently in the α -methylene groups adjacent to the terminal double bonds of the conjugation system. Carotene bromide readily dissolved in $CHCl_3$, CCl_4 , and C_6H_6 , dissolved slightly in Mg_2CO , EtOH, and benzene.

M. Rosen

GRINBERG, F.L., MIKHAYLOVNINA, A.A., SAVINOV, B.G., SVISHCHUK, A.A.,

Stability of carotene. Vitaminy no.1:149-157 '53 (MIRA 1116)

1. Institut organicheskoy khimii AN USSR, Kiev.
(CAROTENE)

SAVINOV, B. G.

"Delegates' Meeting of Ukrainian Republic Division of All-Union Chemical Society
imeni D. I. Mendeleyev" (Ukrainskiy Khimicheskiy Zhurnal, Vol XIX, No. 3, pp.
341-342, 1953)

The second delegates' meeting of the Ukr. Republic Div. of the All-Union Chemical
Society im. D. I. Mendeleyev was held at Kiev 28 March 1953. Present at this meeting
were representatives of organizations of the society from various cities of the
Ukrainian SSR. The delegates represented ten divisions (i.e., local sections)
and comprised about 2,000 chemists, who were members of the Ukrainian Republic
Division of the Mendeleyev society. (Full translation ~~responsible~~
available)

1. SAVINCV, B. G., MIKHAILOVICHINA, A. A.
2. USSR (600)
4. Carotene
7. Neo- β -carotene B as a product of primary stereoisomeric conversion of β -carotene during heating, Dokl. AN SSSR 88, no. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

SAVINOV, B.G.

Major trends in research in organic chemistry in view of the resolutions of the 19th Congress of the Communist Party of the Soviet Union and of the September Plenary Session of the Central Committee of the Communist Party of the Soviet Union. Ukr.khim.zhur. 20 no.1:3-13 '54.

(MLRA 7:3)

(Chemistry, Organic)

SAVINOV, B.; SHILOV, Ye.

In the Council for the Ukrainian State and Kiev Departments of the
Mendeleev All-Union Chemical Society. Ukr.khim.zhur. 20 no.3:340 '54.
(Ukraine--Chemistry) (Chemistry--Ukraine) (MLRA 7:8)

SAVINOV, B. G.

USSR/Chemistry - Chromatography

Card : 1/1 Pub. 116 - 11/20

Authors : Savinov, B. G. and Protsenko, L. D.

Title : Chromatographic investigation of carotene dyes of squash, mountain ash and thistle.

Periodical : Ukr. khim. zhur. 20, Ed. 4, 399 - 407, 1954

Abstract : The content and chemical nature of carotene dyes, found in certain chlorophyll-free organs of plants, were investigated by the chromatographic method. The results are presented in tables. Eighteen references: 5-Swiss, 7-German, 3-USSR, 2-Ukrainian and 1-English (1930-1953).

Institution : Acad. of Sc. Ukr-SSR, Institute of Organic Chemistry

Submitted : February 20, 1954

SAVINOV, B. B.

1633. Determination of vitamin E (total natural tocopherols) in vegetable oils. B. G. Savinov, G. M. Lushchevskaya and L. A. Musilko. *Ukr. Khim. Zh.*, 1984, 20 (5), 573-577. A solution of 1 g of the oil and 0.1 g of pyrogallol in 4 ml of methanol is heated under reflux in a stream of inert gas, and 1 ml of 60 per cent. aq. KOH is added. Boiling is continued for 5 to 7 min., and the mixture is cooled, diluted with 40 ml of H₂O, and extracted with ether (3 x 15 ml). The extract is washed with H₂O and 5 per cent. aq. KOH, and with H₂O (the washings are tested for pyrogallol and alkali). It is then dried by filtration through Na₂SO₄, the ether is distilled off, and the residue is dissolved in 5 ml of benzene. The benzene solution is further purified by filtration through diatomite in a 16-cm x 1-cm column (diatomite layer 1 cm thick, with a little Na₂SO₄ above). A filter pump is used to draw the solution through the column, which is washed down with 25 ml of pure benzene (testing for complete extraction of tocopherols by FeCl₃ and 2:2'-dipyridyl). The benzene is distilled off *in vacuo*. The residue is dissolved in abs. ethanol and the solution is made up to 25 ml. A measured quantity of this solution (≈ 0.15 to 0.35 mg of tocopherols) is treated with 1 ml of 0.2 per cent. FeCl₃ soln. and 1 ml of 0.5 per cent. 2:2'-dipyridyl (both in abs. ethanol). The colour is measured in a photometer (green filter) and the tocopherol estimated from a calibration curve. Results are more reliable than those obtained by the HNO₃ method, which is affected by the presence of tocopherol-quinones.

F. W. KIRKBRIDE

SAVINOV, B. G.

✓ Use of adsorption chromatography for analysis of carotene pigments and their stereoisomers. B. G. Savinov. *Trudy Komissii Anal. Khim., Akad. Nauk S.S.S.R., Inst. Geo-khimi. Anal. Khim.* 6, 122-36 (1955).—The carotene pigments of the fruits of *Cucurbita*, *Sorbus aucuparia*, *Eriophloe rhamnoides*, *Rosa canina*, and *R. corymbifera* were studied. The sepn. of carotene stereoisomers was described. For *Cucurbita* Al_2O_3 (1.25% H_2O) was the adsorbent, petr. ether (b.p. 40-90°) the solvent, and C_6H_6 (or C_6H_6 with petr. ether) the wash liquid. The liquid for discharging was petr. ether contg. 1-5% EtOH or MeOH. The 6 adsorption zones, in descending order, were: violaxanthin ($C_{40}H_{56}O_2$) or its isomer taraxanthin, flavoxanthin ($C_{40}H_{56}O_2$), chrysanthemaxanthin, an unknown oxidation product, xanthophyll, β -carotene, and γ -carotene. These comps. were identified by the max. of absorption (in the visible spectra) of their solns. *S. aucuparia* gave 4 adsorption

zones when Al_2O_3 activated at 200° was the adsorbent, and C_6H_6 the wash liquid. Solns. of the sepd. zones were tested by spectrophotometry and also by chromatography of a mixt. of the unknown with a known compd. In descending order the zones were: an unknown carotenoid (not a retin), cryptoxanthin ($C_{40}H_{56}O_2$), β -carotene monooxide, and β -carotene. β -Carotene was 30% of the extd. pigments. The fat fraction of the juice of the berry of *H. rhamnoides* was saponified. The unsaponified pigment partly dissolved in petr. ether. When the soln. was passed through $Ca(OH)_2$ activated at 500°, 7 zones sepd.: unknown, zeaxanthin ($C_{40}H_{56}O_2$), unknown (but a pigment in tomatoes), lycopene, unknown, γ -carotene, and β -carotene. Carotenes, β -carotene, and γ -carotene were 20% of the extd. pigments. Similarly, in the fruit of *R. corymbifera* was found ribixanthin ($C_{40}H_{56}O_2$), lycopene, and γ - and β -carotene. The last 2 comps. were 4% of the extd. pigments. For sepn. of carotene stereoisomers, their C_6H_6 -petr. ether (1:3) soln. was passed through Al_2O_3 activated 2 hrs. at 700°. This sepd. isomers adsorbed below the *trans*-carotene zone. The *trans*-carotene zone (and higher zones) were washed with C_6H_6 -alc. soln. After alc. and H_2O were removed the filtrate was passed through $Ca(OH)_2$ activated $\frac{1}{2}$ hr. at 500°. This sepd. stereoisomers adsorbed above *trans*-carotene. Neo- β -carotene B was sepd. in crystals and characterized. B. M.

SAVINOY, B.G. and SVISHCHUK, A.A.

Crystallization of carotene. Vitaminy no.2:17-21 '56. (MIRA 10:8)

1. Institut organicheskoy khimii Akademii nauk USSR, Kiev
(CAROTENE) (CRYSTALLIZATION)

SAVINOV, B.G.; SVISHCHUK, A.A.

Obtaining superaturated preparations of carotene. Vitaminy no.2:
22-24 '56. (MIRA 10:8)

1. Institut organicheskoy khimii Akademii nauk USSR, Kiev
(CAROTENE) (SOLUTIONS, SUPERSATURATED)

SAVINOV, B.G.

1702. The use of adsorption chromatography in the analysis of carotene pigments and their stereoisomers. B. G. Savinov. *Trudy Komiss. Anal. Khim. Akad. Nauk. SSSR*, 1956, 6, 122-130. Ref. Zhur. Khim., 1956, Abstr. No. 36,115. A method is described for the stepwise chromatographic separation of a mixture of the natural isomers of carotene and its products (the carotenoids) in extracts from various plant materials. In the first stage (the separation of the carotene from chlorophyll and the carotenoids) the use of MgO as adsorbent at a moisture content of 0.6%, and the

washing of the chromatogram with pure benzene are recommended. The carotenes pass through the column, while the other components are strongly adsorbed. The separation of the isomers of carotene is carried out on the same adsorbent, but the column is washed with light petroleum (boiling up to 80°). A fine separation of all the carotene pigments is achieved only after careful establishment of the analytical conditions in each case. Examples are given of such a separation and of the identification of the components in various products of plant origin. As well as Al_2O_3 and the oxides and carbonates of the alkaline-earth metals, bentonitic clays and diatomite are used as adsorbents.

C. D. KOPKIN

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 842

Author: Savinov, B. G., Verner, D. A., and Mikaylovnina, A. A.

Institution: None

Title: On the Monomethylation of Xylene

Original

Periodical: Ukr. khim. zh., 1956, Vol 22, No 1, 84-87

Abstract: The conditions for the preparation of pseudocumene (I) from xylene (II) have been investigated. The methylation of II with CH_3Cl for 12-25 hours in the presence of anhydrous Al_2Cl_3 at 80° gives I in yields of 30-38% (based on II charged). The separate methylation of the isomers of II produces no advantage compared to the methylation of the mixture; I and mesitylene are formed in both cases. Mesitylene and II are obtained by the hydrolysis with 20% HCl (30 minutes) followed by steam-distillation for 90 minutes at $80-90^\circ$, of the sulfonic acids formed when the fraction of alkylated products boiling at $150-180^\circ$ is sulfonated with an equal volume of concentrated H_2SO_4 .

Card 1/2

USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, #42

Abstract: at 80°. From the remaining pseudocumenesulfonic acid I is separated by hydrolysis with concentrated H_2SO_4 .

Card 2/2

SAVINOV, B.G.

✓ Titrimetric methods for determination of tocopherols.
G. M. Lushcheykaya and B. G. Savinov (Inst. Org. Chem.
Acad. Sci. Ukr. S.S.R., Kiev). *Ukrain. Khim. Zhur.* 22,
236-8 (1950) (in Russian). Four methods were compared:
iodometric (oxidation with $\text{Pb}(\text{CH}_3\text{COO})_2$ and with FeCl_3),
cerimetric, ferrodipyrityl, and HNO_3 . Of these the pre-
ferred procedure was the iodometric one. The draw-
back is that the method requires comparatively large samples
(10-30 mg.).
M. Hosh

PM

SVISHCHUK, A.A.; SAVINOV, B.G.

Preparation of phytol from the chlorophyll of plants. Ukr.khim.
zhur. 22 no.4:518-522 '56. (MIRA 10:10)

1. Institut organicheskoy khimii AN USSR.
(Phytol) (Chlorophyll)

~~SECRET~~
VYVAL'KO, I.G.; DUSHECHKIN, A.I. [deceased]; LUSHCHEVSKAYA, G.M.; MATKOVSKIY, K.I.; SAVINOV, B.G.; SHILOV, Ye.A.; YASNIKOV, A.A.

Mechanism of the biosynthesis of isoprene compounds. Part 2. Formation of carotene pigments in the leaves of kok-saghyz. Ukr. khim. zhur. 22 no.5:655-659 '56. (MIRA 10:6)

1. Institut organicheskoy khimii Akademii nauk USSR i Institut fiziologii rasteniy i agrokhimii Akademii nauk USSR.
(Carotene) (Kok-saghyz) (Biosynthesis)

SAVINOV, B. G.

infrared absorption spectra for determining the quality of
phytol. B. G. Savinov, A. P. Mal'nev, A. A. Sylychuk
and C. A. Chudakov. *Dokl. Akad. Nauk. SSSR*, 24, 790-900
phytol

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410001-9

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447410001-9"

SHINCE, B.G.

ПРИКОТ'КО, А.Ф.

24(7)

3

PHASE I BOOK EXPLOITATION

SOV/1365

L'vov. Universytet

Materialy I Vsesoyuznogo soveshchaniya po spektroskopii. t. 1: Molekulyarnaya spektroskopiya (Papers of the 10th All-Union Conference on Spectroscopy. Vol. 1: Molecular Spectroscopy) [L'vov] Izd-vo L'vovskogo univ-ta, 1957. 499 p. 4,000 copies printed. (Series: Ita: Fizichnyy zbirnyk, vtp. 3/8/)

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po spektroskopii. Ed.: Jazer, S.L.; Tech. Ed.: Saranyuk, T.V.; Editorial Board: Landsterg, G.S., Academician (Resp. Ed., Deceased), Naporent, B.S., Doctor of Physical and Mathematical Sciences, Fabrlinskiy, I.L., Doctor of Physical and Mathematical Sciences, Fabrlinskiy, V.A., Doctor of Physical and Mathematical Sciences, Kornitskiy, V.G., Candidate of Technical Sciences, Rayskiy, S.M., Candidate of Physical and Mathematical Sciences, Klimovskiy, L.K., Candidate of Physical and Mathematical Sciences, Miliyanohuk, V.S., A. Ye., Candidate of Physical and Mathematical Sciences.

Card 1/30

Saviny, B.G. Use of Infrared Absorption Spectra in Determining the Characteristics of the Products of Vitamin E Synthesis

Belyy, M.U. Optical Method for the Determination of the Composition of Complexes in Solutions

265

Bogomolov, S.G., M.P. Grebenshchikova, and I. Ya. Lipavk. Analysis of Phenol-naphthalene Mixtures by Means of Ultraviolet Absorption Spectra

267

Zimina, K.I., and A.G. Siryuk. Group Determination of the Naphthalene Hydrocarbons by Means of Ultraviolet Absorption Spectra

270

Shabadash, A.N., V.P. Fshenitsayna, and V.M. Khisheva. Spectrophotometric Methods of Phase Control in Processing Acetic Anhydride

272

Naporent, B.S., K.F. Vasilevskiy, and N.A. Lapina. Qualitative Absorption by Means of Water Vapor in Near Infrared Region

275

Card 184

SAVINOV, B. G.

73-1-24/26

AUTHOR: Savinov, B. G.

TITLE: Second Rubezhnoye Session of the Division of Chemical and Geological Sciences of the Academy of Sciences of the Ukrainian SSR. (2-ya Rubezhanskaya sessiya Otdeleniya khimicheskikh i geologicheskikh nauk Akademii Nauk Ukr. SSR)

PERIODICAL: Ukrainskiy Khimicheskii Zhurnal, 1957, Vol.23, No.1, pp.128-129 (USSR)

ABSTRACT: The meeting was held from October 22 to 24, 1956 at the Rubezhnoye Chemical Combine (Rubezhnoye Khimicheskii Kombinat). Delegates of three chemical institutes (organic, physical and general, inorganic chemistry) of the Academy of Sciences, Ukraine, participated and also delegates from the Rubezhnoye Chemical Combine and the Rubezhnoye Branch of the Research Institute for semi-finished products and dyes (NIOPIK) and chemists from various parts of the Ukraine. The president of the Chemistry and Geology Section of the Ac.Sc. Ukraine, A. I. Kiprianov, mentioned in his opening address that during the five years which had passed since the first Rubezhnoye sectional meeting, the chemical institutes of the Ac.Sc. Ukraine had associated with the work of the Rubezhnoye Combine and were concerned to a greater or

Card 1/6

73-1-24/26

Second Rubezhnoye Session of the Division of Chemical and Geological Sciences of the Academy of Sciences of the Ukrainian SSR.

lesser extent with problems of interest to the individual undertakings of this combine. As a result of this teamwork, various problems were solved which were of interest to the Rubezhnoye Combine, particularly perfection of a catalyst for the synthesis of phthalic anhydride from naphthalene and a method of purifying the industrial effluents of the combine. The director of the combine, S. D. Bushnev, reported on the prospects of further development of the combine. The production schedule includes organic dyes of every class and also organic and inorganic semi-finished products, poisoned chemicals for agriculture, etc. However, the diversity of the manufactured dyes is not large enough. It is scheduled to introduce in the near future new equipment for manufacturing dyes. Mastering by the combine of new types of production techniques requires solution in time of certain technical and chemical problems. He outlined certain concrete problems which could be solved with the participation of the chemists of the individual institutes of the Ukrainian Ac.Sc. Work on perfecting the catalytic oxidation of naphthalene was reported in two papers. The

Card 2/6

73-1-24/26

Second Rubezhnoye Session of the Division of Chemical and Geological Sciences of the Academy of Sciences of the Ukrainian SSR.

kinetics and macro-kinetics of catalytic oxidation of naphthalene was reported by G. P. Korneychuk, a member of a team of the Institute of Physical Chemistry, Ac.Sc., Ukraine (comprising V. A. Royter, Ya. V. Zhigaylo, V. P. Ushakova). Theoretical consideration of the problem led to the conclusion that it is advisable to use molten vanadium pentoxide which permits increasing appreciably the yield in phthalic anhydride. V. Ya. Vol'fson and Z. A. Lyubitelev (Central Works Laboratory) described the results of investigation of this method in practice and of introducing it into production. A.M. Koganovskiy, IONKh AN USSR, V. M. Chertov, Institute of Gas Utilisation Ac.Sc. Ukraine (Institut Ispol'zovaniya gaza AN USSR and R. M. Bekher, NIOPIK, reported on the work relating to purification of the waste waters. Purification of the effluents into the Donets River is a very serious problem. The work carried out by the chemists of the Ac.Sc. Ukraine, together with the NIOPIK Branch, the team of the combine and the project organisations led to developing a scheme of purification structures based on the separating out by chemical methods and subsequent treatment with active carbon

Card 3/6

73-1-24/26

Second Rubezhnoye Session of the Division of Chemical and Geological Sciences of the Academy of Sciences of the Ukrainian SSR.

of the effluents. A method was developed of producing and activation of carbon from a very accessible raw material, namely, anthracite. The meeting has expressed a desire for more rapid introduction of this method for purifying the effluents from the combine which would result in considerable economies and permit the combine to extent its production without danger of fouling nearby water reservoirs. G. M. Oksengendler reported on the work of NIOPIK on perfecting the production of the Rubezhnoye Chemical Combine; S. T. Rashevskaya, scientific head of the works' laboratory, reported on utilisation of raw materials and on improving the quality of semi-finished products and dyes. In these papers a review was given of the work of the scientific teams and chemists of the central and works' laboratories and of innovators relating to a further rise of the technical standard of the works and certain problems were mentioned, for the solution of which it is desirable to have the assistance of the scientists of the Ac.Sc. Ukraine. In addition to the papers relating to production, members of the section of chemistry and geology read papers on general and theoretical

Card 4/6

73-1-24/26

Second Rubezhnoye Session of the Division of Chemical and Geological Sciences of the Academy of Sciences of the Ukrainian SSR.

topics. Academician A. I. Brodskiy reported on the work of the Institute of Physical Chemistry (Institut Fizicheskoy Khimii) relating to the study of compounds of sulphur and nitrogen by isotope methods which aroused the interest of the personnel of the Central Laboratory of the Rubezhnoye Combine who intend to introduce the isotope method in their investigations. Academician A.I.Kiprianov considered the dependence of the coloration of organic compounds on their spatial structure. He showed that disturbance of the coplanarity leads to a reduction in the degree of coupling of binary bonds, which in some cases leads to a lightening and in others to a darkening of the colour. Academician Ye. A. Shilov considered the structural and energy conditions of formation of transient complexes in organic reactions and pointed out the importance and the extent of occurrence of donor-acceptor systems. Professor V. A. Royter gave a review of modern trends in the theory of heterogeneous catalysts which is of great interest for correct organisation of chemical processes at the combine. The participants of the meeting acquainted themselves with the shops of the combine, organised meetings

Card 5/6

73-1-24/26
Second Rubezhnoye Session of the Division of Chemical and Geological Sciences of the Academy of Sciences of the Ukrainian SSR.

with engineering personnel, foremen and innovators and they also inspected the neighbouring Lisichan Chemical Combine. As a result of direct meetings between the production personnel and the scientists common interests were revealed which will ensure co-operation between the Kiev and the Rubezhnoye chemists.

AVAILABLE: Library of Congress

Card 6/6

SHNAYDMAN, Lev Osipovich; SAVINOV, B.G., doktor tekhn.nauk, retsenzent;
LEBEDEV, A.D., inzh., retsenzent; BELIKOVA, L.S., red.; SOKOLOVA,
L.A., tekhn.red.

[Production of vitamins] Proizvodstvo vitaminov. Moskva,
Pishchepromizdat, 1958. 413 p. (MIRA 12:2)
(Vitamins)

ROMINSKIY, Ivan Rodionovich [Romyns'kyi, I.R.]; SAVINOV, Boris Gri-
gorovich [Savinov, B.H.], doktor tekhn.nauk, otv.red.;
POKROVS'KA, Z.S., red.izd-va; KADASHCHICH, O.O., tekhn.red.

[Fructose and inulin] Fruktosa ta inulin. Kyiv, Vyd-vo Akad.
nauk URSR, 1959. 148 p. (MIRA 13:3)
(Fructose) (Inulin)

VYVAL'KO, I.G.; DUSHECHKIN, A.I. [deceased]; LUSHCHEVSKAYA, G.M.; MATKOVSKIY, K.I.;
SAVINOV, B.G.; SHILOV, Ye.A.; YASNIKOV, A.A.

Biosynthesis of carotene. Vitaminy no.4:159-163 '59.

(MIRA 12:9)

1. Institut organicheskoy khimii Akademii nauk USSR i Institut
zemledliya Ministerstva sel'skogo khozyaystva USSR, Kiyev.
(CAROTENE)

SAVINOV, B.H.[Savinov, B.H.], doktor tekhn.nauk, prof.

Presents from the great chemical industry. Znan.ta pratsia
no.6:18-20 Je '59. (MIRA 12:11)
(Synthetic products) (Polymers)

SAVINOV, B.G. [Savinov, B.H.], prof., doktor tekhn.nauk

Tons of meat from milligrams of powder. Znan. ta pratsia no.5:10-12
My '60. (MIRA 13:10)

(Growth promoting substances)

30749

Z/011/61/018/012/003/007
E073/E535

11.0910

AUTHORS: Savinov, B.G. and Klimenko, P.L.

TITLE: Study of the stability to thermal oxidation of the oil AMG-10 by means of infrared spectroscopy

PERIODICAL: Chemie a chemická technologie; Přehled technické a hospodářské literatury, v.18, no.12, 1961, 560, abstract Ch61-7747 (Khimiya i tekhnologiya topliv i masel, no.5, 1961, 60-63)

TEXT: The infrared absorption spectrum of the hydraulic fluid AMG-10 changes considerably as a result of oxidation by air at 200°C. The location of the absorption bands is given, these correspond to the formation of carbonyl compounds, esterification and the formation of oxidation products of the OH group. 3 figures, 4 references.

[Abstractor's note: Complete translation.]

Card 1/1

S/080/62/035/002/016/022
D258/D302

AUTHORS: Savinov, B. G., Chertkov, Ya. B. and Klimenko, P. I.

TITLE: Study of the structure of nitrogen and oxygen-containing compounds in ligroin-kerosene petroleum fractions by the method of infra-red spectra

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 2, 1962, 398-404

TEXT: The authors' aim was to study the little known structures of N- and O-containing constituents present in both straight distillates and cracking products of petroleum fuels. This was done in view of the relative ease of isolation and the possible economic value of these compounds. Kerosene fractions of T-1 and TC-1 (T-1 and TS-1) fuels and cracking products of both high and low S-contents were passed through activated silica gel columns and the residual non-hydrocarbons were first eluted with alcohol benzene, then freed of S compounds and finally purified on activated alumina. A comparison of the infra-red spectra showed the presence of aromatic and heterocyclic structures in all samples. Oxygen was

Card 1/2

Study of the structure ...

S/080/62/035/002/016/022
D258/D302

shown to be present in the form of OH and C = O groups. There are
2 figures, 2 tables and 5 Soviet-bloc references.

SUBMITTED: February 23, 1961

Card 2/2

SAVINOV, B.G.; CHERTKOV, Ya.B.; KLIMENKO, P.I.

Structure of oxygen and nitrogen compounds of ligroine-kerosine
petroleum fractions studied by infrared spectroscopy. Zhur.brikl.
khim. 35 no.2:398-404 F '62. (MIRA 15:2)
(Petroleum products--Spectra)

SAVITSKY, S. I.

SAVITSKY, S. I.: "Soils of the western portion of the delta of the Terek River." Moscow Order of Lenin Agricultural Academy named K. A. Timiryazev. Moscow, 1956. (Dissertation for the Degree of Candidate in Agricultural Sciences).

SO: Kishinevskaya No. 22, 1956

USSR/Soil Science - Tillage. Melioration. Erosion.

J-4

Abs Jour : Ref Zhur - Biol., No 5, 1958, 20083

Author : ~~Savinov, B.I.~~

Inst : -

Title : The Change in the Salt Structure of Meadow Solonchak and Solonchak Soils of Kizlyarskiy Rayon in Groznenskaya Oblast' during Irrigation.

Orig Pub : Dokl. Mosk. s.-kh. akad. im. K.A. Timiryazeva, 1956, 1, No 26, 108-112.

Abstract : Washing off with estuary flooding without a fault system layout has been widely distributed in the rayon where the investigations were made and is characterized by the intermittent and low effect of desalting: after the watering in spring at a rate of 2500 cubic meters per hectare, in the fall the total salt content in the top horizon of salt meadow soil was 88% that of before watering. It is recommended in the case where the ground water is

Card 1/2

USSR/Soil Science - Tillage. Melioration. Erosion.

J-4

Abs Jour : Ref Zhur - Biol., No 5, 1958, 20083

set higher than 100 cm that the wash watering be applied
after the run-off of the ground water and its fixing at a
depth of not less than 150 cm.

Card 2/2

- 18 -

1. SAVINOV, G.; GRINBERG, F.L.
2. USSR (600)
4. Chromatographic Analysis
7. Chromatography of the primary products of catalytic oxidation and isomerization of carotene, G. Savinov, F.L. Grinberg, Ukr.khim,zhur. 16 no. 3, 1950.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

SAVINOV, G. B.

Chem Abs
V. 48 25 Jan 54

Organic chem

Synthesis of compounds possessing vitamin A activity.
B. G. Savinov and G. S. Tref'nyakova. *Uspekhi Khim.* 20,
336-60 (1951).—Review with 70 references. G. M. K.

3
②
C. Kern

RA

SAVINOV, B. G.

USSR/Chemistry - Vegetable coloring

Card 1/1 Pub. 77 - 6/20

Authors : Savinov, B. G., Dr. Tech. Sci., Prof.

Title : Carotene

Periodical : Nauka i zhizn' 21/12, 15-16, Dec 1954

Abstract : The substance carotene is described with particular regard to its use as a vegetable coloring and as a source of vitamin A. Figures are given of the carotene content of various vegetables, showing the carrot to have the highest percentage. An older method of extracting carotene is described, its defects are pointed out and an account is given of a new and more effective method developed by the Institute of Organic Chemistry. An increase in the production of carotene in the Soviet Union of 2 1/2 times during the last five years is claimed. Illustrations.

Institution : ...

Submitted : ...

BORISENOK, I.T.; GENEROZOV, M.N.; YEREMEYEV, N.V.; KARAMYSHKIN, V.V.; KUZOVKOV, N.T.; BORISENOK, I.T.; KULIKOVSKAYA, N.V.; SAVINOV, G.I., kand.fiz.-mat. nauk, dots. [deceased]; PIROGOV, I.Z.; Primali uchastiye: BALAYEVA, I.A.; BALAKIN, B.M.; BELYAYEVA, G.M.; BELYAKOV, V.I.; VELERSHTEYN, R.A.; ZHARKOV, G.M.; KOROLEVA, V.Ye.; LITVIN-SEDOY, M.Z.; POPOV, A.I.; PRIVALOV, V.A.; STUKALOVA, L.M.; CHISTYAKOV, A.I.; SAVVIN, A.B., red.; CHISTYAKOVA, K.S., tekhn. red.

[Laboratory work in theoretical and applied mechanics] Laboratornyi praktikum po obshchei i prikladnoi mekhanike. Moskva, Izd-vo mosk. univ. 1963. 233 p. (MIRA 16:12)

1. Kafedra prikladnoy mekhaniki Moskovskogo gosudarstvennogo universiteta (for Balayeva, Balakin, Belyayeva, Belyakov, Velershteyn, Zharkov, Koroleva, Litvin-Sedoy, Popov, Privalov, Stukalova, Chistyakov).

(Mechanics--Laboratory manuals)

AVRAMENKO, L. I.; KOLESNIKOVA, R. V.; SAVINOVA, G. I.

Rate constants and mechanism of reactions of oxygen atoms with ethylene, propylene, and isobutylene. Izv. AN SSSR. Otd. khim. nauk no.1:36-45 '63. (MIRA 16:1)

1. Institut khimicheskoy fiziki AN SSSR.

(Oxygen) (Chemical reaction, Rate of)
(Olefins)

AVRAMENKO, L.I.; KOLESNIKOVA, R.V.; SAVINOVA, G.I.

Mechanism and rate constant of the reaction between oxygen atoms
and acetylene. Izv. AN SSSR. Ser. khim. no.3:408-412 '65. (MIRA 18:5)

I. institut khimicheskoy fiziki AN SSSR.

NAVAGIN, Yuriy Sergeyevich, kand. tekhn. nauk; SAVINOV, G.S., red.; FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Using the energy from underwater blasting for sheet stamping (drawing)] Ispol'zovanie energii podvodnogo vzryva dlia listovoi shtampovki (vytiazhki); stenogramma lektsii, pročitannoi v LDNTP na zaniatii seminaru ob kholodnoi shtampovke. Leningrad, 1961. 28 p. (MIRA 14:7)

(Sheet metal work)

SAVINOV, G.S.; RUBTSOVA, N.M.; MOSKVIN, D.S., inzh., retsenzent

[The EV-80-3 electronic computer and its use in planning and accounting work] Elektronnyi vychislitel' EV-80-3 i ego ispol'zovanie v planovye-uchetnykh rabotakh. Moskva, Mashinostroenie, 1965. 106 p. (MIRA 18:8)

SAVINOV, Gleb Stepanovich; RUBTSOVA, Nina Mikhaylovna; NOVIKOVA,
L.K., red.

[Some problems in designing and organizing computer centers
of enterprises] Nekotorye voprosy proektirovaniia i organi-
zatsii vychislitel'nykh tsentrov predpriatii. Leningrad,
1965. 35 p. (MIRA 18:11)

ZHIGUNOVA, N.I.; SAVINOV, G.S., inzh., red.; FREGER, D.P., red. 1st-va;
GVIRTS, V.L., tekhn. red.

[Using explosive energy in the manufacture of machinery;
bibliographical index of literature] Primenenie energii
vzryva v mashinostroitel'nom proizvodstve: bibliograficheski
ukazatel' literatury. Pod red. G.S. Savinova. Leningrad, 1961.
(MIRA 14:12)
31 p.

1. Leningradskiy Dom nauchno-tekhnicheskoy propagandy. Nauchno-
tekhnicheskaya biblioteka.

(Bibliography--Metalwork)

(Bibliography--Explosives)